

## PRODUCT SPECIFICATION – SERIES 1080

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### SECTION 10170 SOLID PHENOLIC PLASTIC TOILET PARTITIONS

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#### PART 1 - GENERAL

##### 1.01 Work Included

- A. Toilet Compartments
- B. Urinal Screens
- C. Shower Dividers
- D. Dressing Compartments
- E. Benches

##### 1.02 Related Sections

- A. Support for ceiling-hung compartments.
- B. Wall backing required to secure mounting brackets.
- C. Support for floor-anchored compartments.
- D. Toilet room accessories.

##### 1.03 References (including but not limited to)

- A. *National Fire Protection Association 101 Life Safety Code 1991 Edition.* Chapters 5, 6, 8-30.
- B. *ANSI A117- 1986 Specifications for Making Buildings and Facilities Accessible to and Usable by Physically Handicapped People.*
- C. *UBC - Chapters 5 and 33 Requirements for Handicapped.*
- D. *Title 24, California Code of Regulations.* Parts 2, 3, and 5.
- E. *ADA, Accessibility Guidelines for Buildings and Facilities,* Federal Register Volume 56, Number 144, Rules and Regulations.
- F. *Fair Housing Amendments Act of 1988, Accessibility Guidelines,* Federal Register Volume 56, Number 44.
- G. *Southern Building Code.*

##### 1.04 QUALITY ASSURANCE

- A. Manufacturers
  - 1. Model numbers for compartments manufactured by Bobrick Washroom Equipment, Inc. are listed to establish a standard of quality for design, function, materials, workmanship, and appearance. Other manufacturers may be submitted for evaluation by the architect by following the conditions of the substitutions clause. Unless approval is obtained ten days prior to the bid date, all bids shall be based on the standard of quality. The architect shall be the sole judge as to the acceptability of all products submitted for substitution.

2. Compartments shall be the product(s) of a single manufacturer.

1.05 Submittals

- A. Comply with requirements of Section regarding submittals.
- B. Manufacturer's Data
  1. Provide required number copies of:
    - a. Product data sheets.
    - b. Installation instructions.
    - c. Replacement parts information.
- C. Shop Drawings
  1. Provide required number of copies of all shop drawings.
  2. Show fabrication and erection of compartment assemblies, to extent not fully described by manufacturer's data sheets.
  3. Show anchorage, accessory items and finishes.
  4. Provide location drawings for bolt hole locations in supporting members for attachment of compartments.
- D. Samples
  1. Furnish scale model of compartments, including stile, shoe, door, door hardware, divider panel, and mounting brackets.
  2. Furnish sections showing stile anchoring and leveling devices, concealed threaded inserts, panel and stile construction and edge construction.

1.06 Product Delivery, Storage, and Handling

- A. Deliver items in manufacturer's original unopened protective packaging.
- B. Store materials in original protective packaging to prevent physical damage or wetting.
- C. Handle so as to prevent damage to finished surfaces.

1.07 Warranty

- A. Furnish ten year limited warranty for panels, doors, and stiles against breakage, corrosion, delamination, and defects in factory workmanship.
- B. Furnish one year guarantee against defects in material and workmanship for stainless steel door hardware and mounting brackets.

**PART 2 - PRODUCTS**

2.01 Configurations

- A. National Fire Protection Association Class A
  1. Toilet Compartments shall be:

Floor-Anchored (1181/1181.67 Duraline Series)  
- or -  
Overhead-Braced (1182/1182.67 Duraline Series)  
- or -  
Floor to Ceiling (1186/1186.67 Duraline Series)  
- or -  
Ceiling-Hung (1188/1188.67 Duraline Series)

2. Urinal Screens shall be:  
Floor-Anchored (1181 Duraline Series)  
- or -  
Post-to-Ceiling (1183 Duraline Series)  
- or -  
Wall-Hung (1185 Duraline Series)  
- or -  
Ceiling-Hung (1188 Duraline Series)

B. National Fire Protection Association Class B

1. Toilet Compartments shall be:  
Floor-Anchored (1081/1081.67 Duraline Series)  
- or -  
Overhead-Braced (1082/1082.67 Duraline Series)  
- or -  
Floor and Ceiling (1086/1086.67 Duraline Series)  
- or -  
Ceiling-Hung (1088/1088.67 Duraline Series)
2. Urinal Screens shall be:  
Floor-Anchored (1081 Duraline Series)  
- or -  
Post-to-Ceiling (1083 Duraline Series)  
- or -  
Wall-Hung (1085 Duraline Series)  
- or -  
Ceiling-Hung (1088 Duraline Series)

2.02 Components/Materials

A. Stiles, Panels, Doors, Screens, and Benches

1. Solid phenolic material constructed of solidly fused plastic laminate with matte-finish melamine surfaces, colored face sheets, and black phenolic-resin core that are integrally bonded. Edges shall be black. Brown edges shall not be acceptable. Color and pattern as selected by architect from Bobrick standard colors.
2. For 1180 Duraline Series: solid phenolic material shall meet National Fire Protection Association Class A, Uniform Building Code Class I, ASTM E-84 Fire Resistance Standards; flame spread 20, smoke density 95.
3. For 1080 Duraline Series: solid phenolic material shall meet National Fire Protection Association Class B, Uniform Building Code Class II, ASTM E-84 Fire Resistance Standards: flame spread 69, smoke density 93.
4. Finish Thickness

- a. Stiles and doors shall be 3/4" (19 mm).
- b. Panels and benches shall be 1/2" (13 mm).

B. Hardware

1. All hardware to be 18-8, type-304 stainless steel with satin finish.
2. All hardware shall be concealed inside compartments with the exception of out-swinging doors.
3. Hardware of chrome-plated "Zamac" is unacceptable.

C. Latch

1. Sliding door latch shall be 16 gauge (1.6 mm).
2. Sliding door latch shall require less than 5-lb force to operate. Twisting latch operation will not be acceptable.
3. Latch track shall be attached to door by flathead machine screws into factory-installed threaded brass inserts.
4. Latch handle shall have rubber bumper to act as door stop.
5. Latch shall allow door to be lifted over 16-gauge (1.6-mm) keeper for emergency access.
6. Metal-to-metal connection shall withstand a direct pull of over 1000 lb. per screw.

**Vandal-Resistant Option (.67):**

1. **Sliding door latch shall be 14 gauge (2 mm) and shall slide on nylon track.**
2. **Sliding door latch shall require less than 5-lb force to operate. Twisting latch operation will not be acceptable.**
3. **Latch track shall be attached to door by flathead machine screws into factory-installed threaded brass inserts.**
4. **Latch handle shall have rubber bumper to act as door stop.**
5. **Latch shall allow door to be lifted over 8-gauge (4.4-mm) keeper for emergency access.**
6. **Metal-to-metal connection shall withstand a direct pull of over 1000 lb. per screw.**

D. Hinges

1. Cam shall be adjustable in the field to permit door to be fully closed or partially open when compartment is unoccupied.
2. Hinges shall be attached to door and stile by theft-resistant, one-way stainless steel machine screws into factory-installed metal inserts. Fasteners secured directly into the core are not acceptable.
4. Metal-to-metal connection shall withstand a direct pull of over 1000 lb. per screw.

**Vandal-Resistant Option (.67):**

1. **Hinge shall be 16-gauge (1.6-mm) continuous piano hinge.**
2. **All doors shall be equipped with self-closing hinge.**
3. **Continuous piano hinge shall be attached to door and stile by theft-resistant, one-way, stainless steel machine screws into threaded brass inserts.**
4. **Door shall be furnished with two 11-gauge (3-mm) vinyl-coated door stops to resist door from being kicked out of compartment.**

**5. Door stops and keeper shall be secured with stainless steel, one-way, machine screws from inside of compartment to threaded brass inserts.**

- E. Coat Hook shall be constructed of stainless steel and shall project no more than 1-1/8" (29 mm) from face of door. Coat hook shall be secured by theft-resistant, one-way stainless steel screws.

**Vandal-Resistant Option (.67): Coat hook is not furnished.**

- F. Mounting Brackets shall be constructed of stainless steel and shall be mounted inside compartment. Mounting brackets exposed on the exterior of the compartment will not be acceptable. Wall mounted urinal screen brackets shall be 11 gauge (3 mm) double thickness.

**Vandal-Resistant Option (.67): Mounting brackets shall be 18-gauge (1.2-mm) stainless steel and extend full height of panel. U-channels shall be furnished for panel to stile mounting. Angle brackets shall be furnished for stile to wall and stile to panel mounting. Angle brackets shall be furnished for panel to wall mounting.**

- G. Leveling Device shall be 3/16" (5-mm) hot rolled steel bar; chromate-treated and zinc-plated; through-bolted to base of solid phenolic stile.
- H. Stile Shoe shall be one-piece, 4" (102-mm) high, type-304, 22-gauge (0.8-mm) stainless steel with satin finish. Top shall have 90° return to stile. Patented one-piece shoe capable of adapting to 3/4" or 1" stile thickness and capable of being fastened (by clip) to stiles starting at wall line.
- I. Headrail (Overhead Braced) shall be satin finish, extruded anodized aluminum (.125" / 5-mm thick) with anti-grip profile.

2.03 FABRICATION

- A. **Vandal-Resistant Hardware Option: For concealed mounting door hardware inside the compartment (no exposed screw heads on exterior) add suffix .67 to 1081,1082,1086,1088,1181,1182,1186,1188 Series.**

**PART 3 - EXECUTION**

3.01 Inspection

- A. Check areas scheduled to receive compartments for correct dimensions, plumbness of walls, and soundness of surfaces that would affect installation of mounting brackets.
- B. Verify spacing of plumbing fixtures to assure compatibility with installation of compartments.
- C. Do not begin installation of compartments until conditions are satisfactory.

3.02 Erection

- A. Install compartments rigidly, straight, plumb, and level and in accordance with manufacturer's installation instructions.
- B. Installation methods shall conform to manufacturer's recommendations for backing and proper support.

- C. Conceal evidence of drilling, cutting, and fitting to room finish.
- D. Maintain uniform clearance at vertical edge of doors.

3.03

Adjustment and Cleaning

- A. Adjust hardware for proper operation after installation.
- B. Set hinge cam on in-swinging doors to hold doors open when unlatched.
- C. Set hinge cam on out-swinging doors to hold unlatched doors in closed position.
- D. Clean exposed surfaces of compartments, hardware, and fittings.

